



UNIVERSITÀ DEGLI STUDI
DI GENOVA

UNIVERSITY OF GENOA - ITALY

FELLOWSHIP IN ADVANCED ESTHETIC & RESTORATIVE DENTISTRY

International Postgraduate Diploma

Objective

The Fellowship Diploma of the University of Genoa, Italy is a one-year international training program designed to offer comprehensive training in all aspects of esthetic and contemporary restorative dentistry. Fellowship shall define a level of competence that is consistent with an experienced clinician. The goal of the curriculum is to provide dentists with a scientifically-based rationale for all diagnostic, treatment planning, and patient care decisions. The course is designed to provide an advanced evidence-based core knowledge in modern esthetic and restorative dentistry and to refine practical skills. This includes esthetic dental techniques, adhesive procedures, as well as dental materials used in all aspects of esthetics and contemporary restorative dentistry. Emphasis is placed on the integration of this training program into the on-going practice of dentistry for each participant and the future benefit for dental patients. The course is composed by five two-day modules. The first four of these meetings shall be held in the host country. The final two-day meeting will be conducted in Genoa. Elements of the course are didactic theoretical and applied clinical knowledge of adhesive techniques in all aspects of restorative dentistry.

The didactic format will include lectures, laboratory time, video review literature review and an intensive hands-on practice. The training program includes topics such as treatment planning and smile design, use of articulator, and training in other instrumentation as dental laser, ceramic veneers, ceramic posterior restorations, esthetic metal ceramics, all-ceramic systems, computer-generated ceramic restorations, composites (direct and indirect restorations), Anatomical layering technique for frontal and posterior dentition, science of contemporary esthetic materials as well as periodontal esthetics.

The teaching faculty is selected from members of the Faculty of Medicine, University of Genoa and accredited International specialists in esthetic and restorative dentistry. The international training program is directed by Prof. S. Benedicenti and members of the scientific board are Prof. a.c. Antonio Signore and Prof. Vassilios Kaitzas. Successful completion of the course and final examination shall be recognised by the presentation of a certificate: "Fellowship in Esthetic and Restorative Dentistry"

Course Structure

The course is composed by five modules.

Module 1

Composite selection

- What are the main differences between the categories of resin composites: macrofilled, microfine, hybrid, flowable and nanocomposites? Do we need them all in our practice?
- Latest innovations in restorative dentistry: Self-adherent resin composites and low shrinkage materials.

Dentino-enamel adhesives

- What are the main differences between the total Etch v/s self-etch technique?
- What are the main bonding systems available?
- How to achieve a reliable bonding procedure?

Light curing units and procedures

- The different types of light curing units and techniques used in restorative procedures.
- Criteria for selecting a light curing device
- Maintenance and replacement of light curing devices

Pulp protection: When and how?

- Indications and biological fundamentals of pulp protection.
- Properties and handling of the different materials used in pulp capping
- Ca(OH)₂, MTA, Biodentine
- Glass-ionomers in direct restorations: categories and uses.
- Hands-on and literature review 1

Module 2

Treatment plan in restorative dentistry

Rubber Dam application and field isolation in esthetic dentistry

Materials and techniques

Teeth discolorations and their treatments.

- Diagnosis, etiology and treatment of teeth discolorations.

- Products, materials and techniques used in bleaching.
- Non-Vital tooth bleaching.
- Vital teeth bleaching: home bleaching vs in Office teeth bleaching.
- The use of halogen and plasma lights in teeth bleaching.

Esthetic anterior restorations: Class III, IV and V.

- How to achieve optimal shade selection in cosmetic dentistry?
- Cavity preparation, beveling and caries removal.
- Filling according to the layering technique concept.
- Etiology of cervical lesions, materials and techniques for class V restorations.
- Finishing and polishing of anterior restorations : instruments and techniques.
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Direct Posterior restorations

- How to obtain an adequate contact point? The different matrix systems.
- Principle of cavity preparations and filling technique of posterior teeth.
- The adequate instruments to be used in posterior restorations.
- Finishing and polishing of posterior restorations.

Hands-on and literature review 2

Module 3

Advanced Aesthetic treatments

- Diastema closure using direct restorative techniques.
- Use of color modifiers in different clinical situations.
- Restoration of Endodontically treated teeth.
- When and how to use Fiber posts?
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New concepts in adhesive dentistry

- Minimal invasive dentistry (MID): Concepts of Microdentistry, the use of miniburs, ultrasounds, air and sono abrasion and their adequate restorative techniques.
- Bulk Filling concept in posterior restorations : Sonicfill, SDR, Filtek Bulk Fill ect.
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Hypersensitivity and composite restorations

- What are the factors responsible of postoperative hypersensitivity in composite restorations?
- How to manage those cases?
- Tooth crack syndrom: causes and treatments of cracked teeth.
- Repair of composite restorations: When and how?
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Inlay-Onlays : from preparation to cementation

- Principles, tools and techniques for Inlay-Onlays preparations.
- Restorations Ceramic or composite Inlay?
- Longevity and maintenance of Inlays.

Hands-on and literature review 3

Module 4

The smile design

- Artistic and scientific in smile design: Face, lips, teeth and periodontium.
- Dental aspect of a smile: Ideal proportions of the teeth, symmetry, perspective and illusion.

Dental ceramics

- Characteristics of all ceramic systems.

- The systems of all ceramic crowns : Empress, Procera, InCeram, Zircono.
- Principals, instrumentation and technique of preparations of “all ceramic”
- crowns on anterior and posterior teeth.

Porcelain laminate veneers : from preparation to cementation

- Indication of porcelain veneers.
- Preparation principles.
- Temporary and impression.
- Resin cements used for indirect restorations: composition and uses.
- Try in and luting of porcelain veneers.
- Finishing and polishing.
- Maintenance and failures of porcelain veneers.

Esthetics and periodontal treatment

- Maintenance and management of the healthy periodontium.
- Cavity limits and bone level.
- Gum and periodontal tissues.
- Crown lengthening of a single tooth.
- Gummy smile: Esthetic crown lengthening and melanin pigmentation.

Hands-on and literature review 4

Module 5

- CAD/ CAM in restorative dentistry.
- Fundamentals of CAD/CAM in cosmetic dentistry.
- Tools and instrumentations.
- Principles of CAD/CAM preparations.
- Communication with the lab technician.

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Lasers in restorative dentistry

- General concepts in lasers.
- Indication and contra indications.
- Different types of lasers used in restorative dentistry.

- Multiple-choice examination – Diploma
- Closing ceremony

Program Fact sheet

Where: Four of five modules shall be held in the host country. The final meeting is preferably conducted in Genoa city at the following venue:

UNIVERSITÀ DEGLI STUDI DI GENOVA
Biomedical & dentistry department
C/o San Martino Hospital,
Pavilion # 4 Largo Rosanna Benzi, 10
16132 Genova (Italy)
www.centrolaser.unige.it

The University of Genoa with a student population of over 35,000 and a Faculty of 1,600, it is one of the largest academic institutions in Italy. The Medical Faculty was founded in the XV century as a College which was located in the medieval area of town. In the thirties, the hospital services were transferred to the San Martino district and now covers over 90,000 sqm of hospital space, laboratories, teaching and sports facilities, libraries and offices. The university structure is located within the complex of the San Martino Hospital in Genoa and is part of the Department of Surgical Sciences and Integrated Diagnostics.

When: the program is developed in one-year course of study. The timetable and dates are available through your local referent/dealer.

Notes:

Payment of course fees shall be payable at the commencement of the course and non-refundable.

Course participants must be dental practitioners holding a current license to practice dentistry, conferred by a recognised National Dental Body.

Genoa the lighthouse of Italy

Genova (Italian for Genoa) is capital of the Genoa province and Liguria in northwest Italy. The city carries a population of 1million and is beautifully positioned on the Italian Riviera. Genova is known for being the chief seaport of Italy. Some great places to see in Genova are the palace of the doges, the medieval Church of San Donato, the Carlo Felice Opera House (dating back to the 19th century), the 16th century churches of St. Ambrose and the Annunciation, and other magnificent Renaissance palaces.

Walls and forts are abundant throughout the city; the narrow streets of the harbor area are captivating. One popular attraction is the lighthouse called Lanterna, which dates back to the 16th century. This lighthouse is an important "landmark" of Genova.

In 1992, Renzo Piano was credited for redesigning the Old Port. A modern Aquarium and a tropical greenhouse are located there. Genova also has a university which was founded in 1243 and a few museums. Genova's maritime presence is still very strong, which can be sensed throughout the entire area.

All the information about Genoa city at <http://www.genova-turismo.it/>